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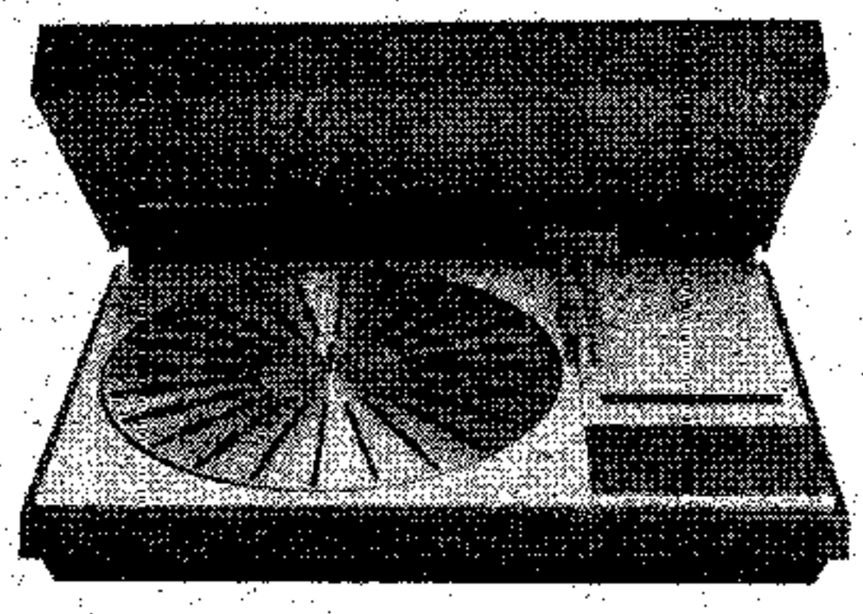

BEOGRAM 4002-6000

TYPE 5501-5502

SERVICE MANUAL

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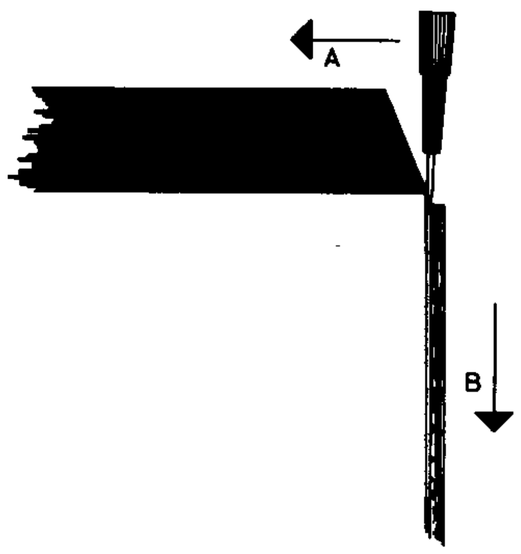
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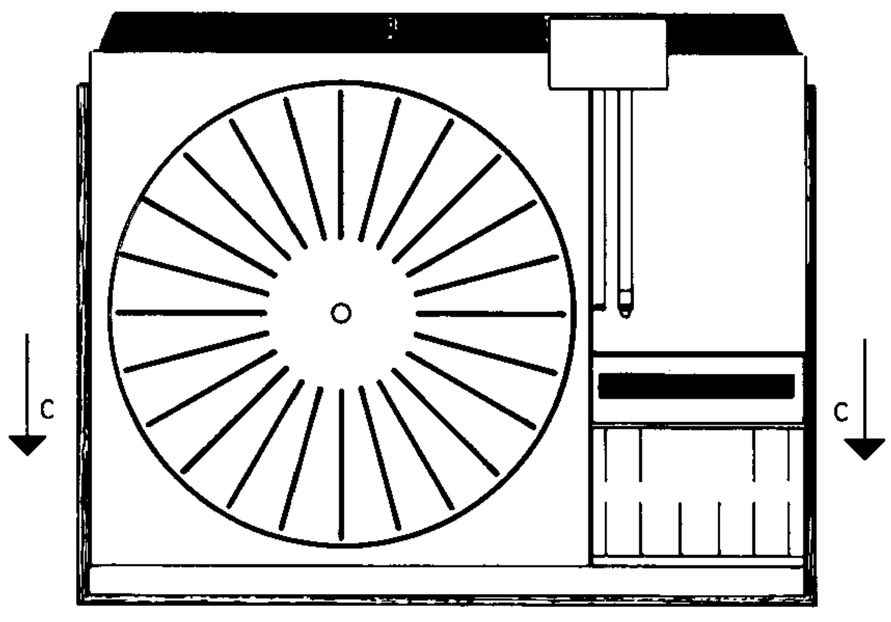
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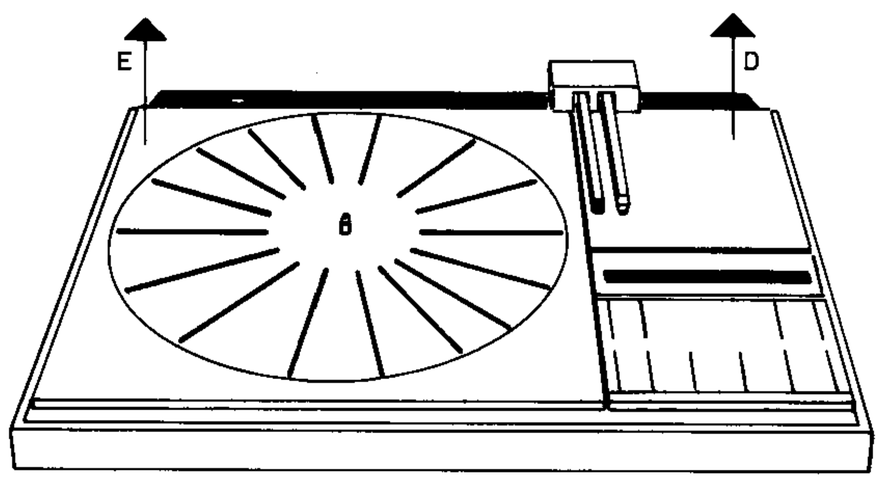
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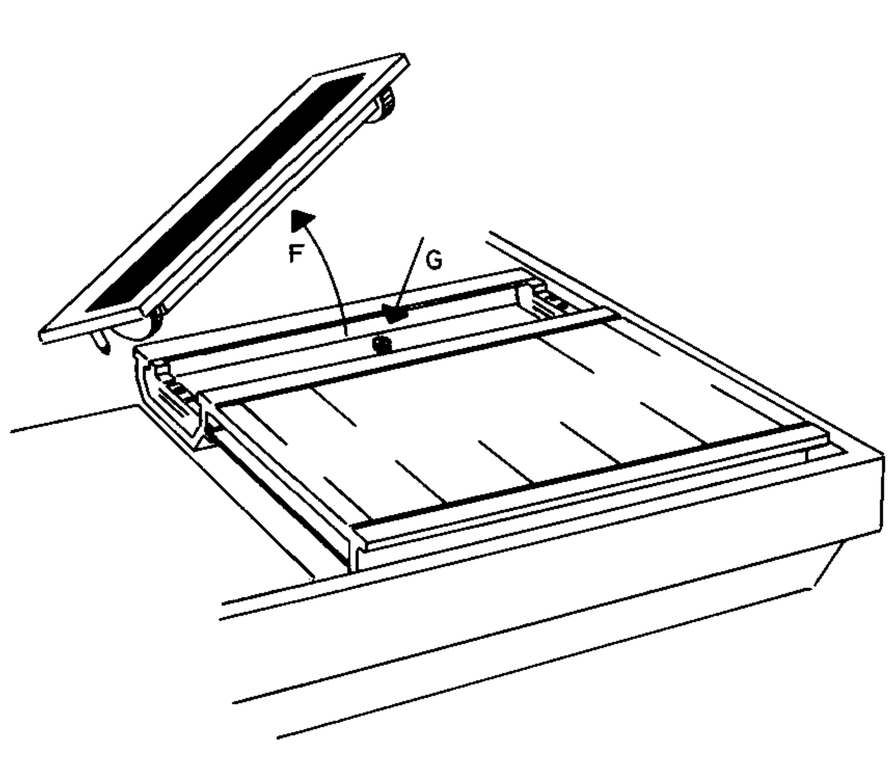
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G

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TECNICAL DATA	DIN 45 500 requirements	BEOGRAM 4002	BEOGRAM 6000
Type No.		**5501**	**5502**
Sound system		Stereo, matrix	CD-4, Stereo, matrix
Output		2 x 1 mV	4 x 200 mV / 470 k ohms
Speeds		33 - 45 rpm	33 - 45 rpm
Tone arm		Tangential	Tangential
Pickup cartridge		MMC 4000	MMC 6000
Automatic record-size		Yes	Yes
Automatic pickup movement		Yes	Yes
Automatic speed selection		Yes	Yes
Wow and flutter DIN	< ± 0,2%	< ± 0,05%	< ± 0,05%
Wow and flutter WRMS		< ± 0.025%	< ± 0,025%
Rumble, DIN unweighted	> 35 dB	> 42 dB	> 45 dB
Rumble, DIN weighted	> 55 dB	> 65 dB	> 65 dB
Speed deviation	< + 1,5% — 1%	< 0,02%	< 0,02%
Speed control range		> 6%	> 6%
Dial for speed		2 pointers	2 pointers
Stylus pressure range		0 - 1,5 gram	0 - 1,5 gram
Tangential tracking		0,04°	0,04°
Lift system		Electronic	Electronic
Antiskating		Parallel tracking angle	Parallel tracking angle
		compensated	compensated
Motor		Controlled synchronous	Controlled synchronous
Drive system		Belt	Belt
Turntable		30 cm 2,2 kg	30 cm 2,2 kg
Dust cover		Hinged and detachable	Hinged and detachable
Power supply		110 - 130 - 220 - 240 volts	110 - 130 - 220 - 240 volts
Frequency		50 - 60 Hz	50 - 60 Hz
Power consumption		40 watts	50 watts
Dimensions W x H x D		49 x 10 x 38 cm	49 x 10 x 38 cm
Weight		12 kg	12 kg

Pick-up		**MMC 4000**	**MMC 6000**
Stylus		Elliptical naked diamond	Pramanik diamond
Radius of curvature	Spherical 15 µm ± 5 µm	5 x 17 µm	(CD-4 quadro)
Frequency range	40 - 12.000 Hz ± 5 dB	20 - 25.000 Hz ± 1,5 dB	20 - 15.000 Hz ± 1,5 dB
	63,5 - 8.000 Hz ± 2 dB		30 - 45.000 Hz A-Rating
Channel separation 1000 Hz	≧ 20 dB	> 25 dB	> 25 dB
400 - 10000 Hz	≧ 15 dB	> 20 dB	> 20 dB
Channel difference	≦ 2 dB	< 1,5 dB	< 1,5 dB
FIM distortion	< 1%	< 1%	< 1%
Recommende stylus			
pressure	< 5 gram	1 gram	1 gram
Compliance	> 4×10^{-6} cm / dyn	30×10^{-6} cm / dyn	30×10^{-6} cm / dyn
Effective tip mass		0,4 mg	0,22 mg
Output mV / cm / sec.		0,6 mV / 47 k ohms	0,6 mV / 100 k ohms

Subject to change without notice

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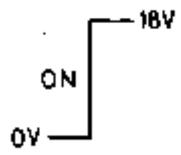
Symboler
Symbols
Symbole

Som supplement til spændingsangivelserne benyttes symboler fra betjeningspanelet samt fra slædekontakterne til at angive, at en DC spænding i et kredsløb ændrer sig fra et niveau til et andet.

As a supplement to the measuring specification symbols from the operating panel and from the carrier switch are used to indicate that a DC voltage in a circuit changes from one level to another e.g.

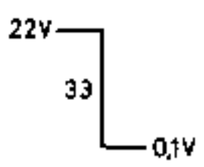
Als Ergänzung zu den Spannungsangaben werden die Symbole vom Bedienungspanel und von den Schlittenkontakten dazu benutzt, anzugeben, dass eine DC Spannung in einer Kreislauf sich von einem Niveau auf ein anderes ändert.



F.eks. betyder dette symbol, at spændingen springer fra 0 til 18 V, når panelkontakten ON aktiveres.

This symbol indicates that the voltage goes from 0 to 18 V when activating panel switch ON.

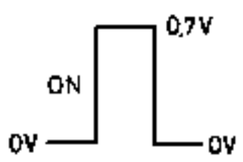
Z.B. bedeutet dieses Symbol, dass die Spannung von 0 auf 18 Volt springt, wenn den Kontakt ON aktiviert wird.



Dette symbol betyder, at spændingen springer fra 22 V til 0,1 V, når panelkontakten 33 aktiveres.

This symbol indicates that the voltage goes from 22 V to 0,1 when activating panel switch 33.

Dieses Symbol bedeutet, dass die Spannung von 22 Volt auf 0,1 Volt springt, wenn den Panelkontakt 33 aktiviert wird.

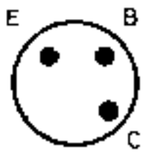
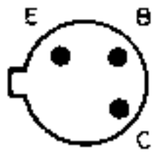
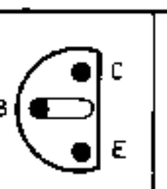
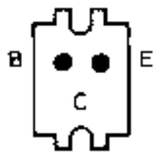
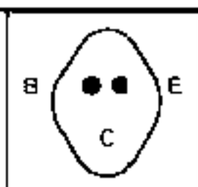


Dette symbol betyder, at spændingen springer fra 0 til 0,7 V, sålænge ON kontakten aktiveres, hvorefter spændingen igen springer på 0 V.

This symbol indicates that the voltage goes from 0 to 0,7, as long as the ON switch is activated, whereafter the voltage goes to 0 again.

Dieses Symbol bedeutet, dass die Spannung von 0 auf 0,7 springt, solange den Kontakt ON aktiviert wird, worauf die Spannung wieder auf 0 Volt springt.

DIAGRAM 1 Beogram 4002 Type 5501 until no. 257556
Beogram 6000 Type 5502 until no. 260028

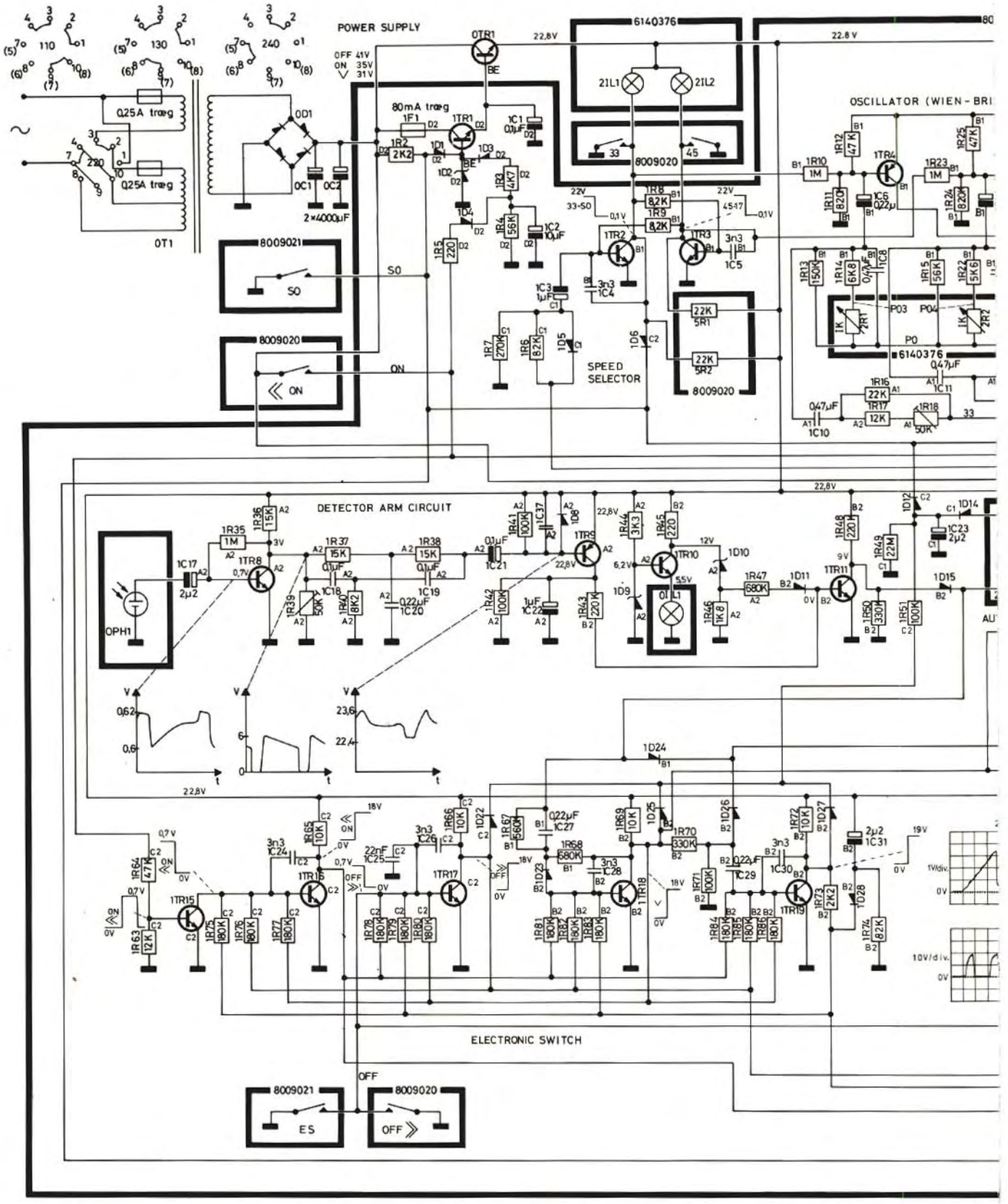
INDEX								
8320097	BC207B	BC107B	BC182BL	BC547B				
				BC237B				
				BC182B				
				BC171B				
8320103					2N5034			
					2N5035			
8320135		MM3005/						
		MM4005						
		BC143/						
		BC144						
		BC143/						
		BC142						
8320161		BC261B	BC212BL	BC212B				
				BC251B				
8320222						BD182		
						2N3055		
8320232		BC142						
		BC144						
8320265							TIP32	
8320266							TIP31	
8320295			BFR41	BC337				
8320312							TIP41A	

0TR1 8320103
0TR1 8320222
0TR2 8320266
0TR3 8320265
0TR4 8320312

1TR1 8320232
1TR2 8320097
1TR3 8320097
1TR4 8320161
1TR5 8320161
1TR6 8320232
1TR7 8320232
1TR8 8320097
1TR9 8320161
1TR10 8320295
1TR11 8320097
1TR12 8320097
1TR13 8320097
1TR14 8320232
1TR15 8320097
1TR16 8320097
1TR17 8320097
1TR18 8320097
1TR19 8320097
1TR20 8320097
1TR21 8320097
1TR22 8320097
1TR23 8320161
1TR24 8320135
1TR25 8320135
1TR26 8320135
1TR27 8320135
1TR28 8320097
1TR29 8320161

0D1	8310020	B80C2200		
1D2	8300054	ZPD24V±5%	BZX79C24V0	
1D9	8300201	ZPD6V2±5%	BZX79C6V2	
1D10	8300053	ZPD15V±5%	BZX79C15V0	BZY88C15
1D12	8300101	BAX16		
3D1	8300102	IN4004	EM504	
Other diodes	8300058	IN4148	SFD184	

DIAGRAM 1 Beogram 4002 Type 5501 until no. 257556/Beogram 6000 Type 5502 until no. 260028



Alle DC spændinger er positive i forhold til stel, og de er målt med roterende pladetallerken, med hævet pick-up arm og med detektorarmen inde over en plade.

Spændingerne er målt med voltmeter med en indre modstand på mindst 2 Mohm.

De angivne impulser i detektorarmskredsløbet er målt med roterende pladetallerken og med detektorarmen inde over ribberne uden plade på. Impulserne i udløbsstoppet er målt med pick-up'en sænket i en udløbsrille med en stigning på ca. 3 mm/omdr. på 30 cm plade.

All DC voltages are positive in proportion to chassis
table and raised picp-up arm and with the detector a

The voltages are measured by voltmeter and an inne

The stated impulses of the detector arm circuit are m
the detector arm over the ribs without any record on.

The impulses of the outlet stop are measured with th
with a rise of approx. 3 mm/turns on 30 cm record.

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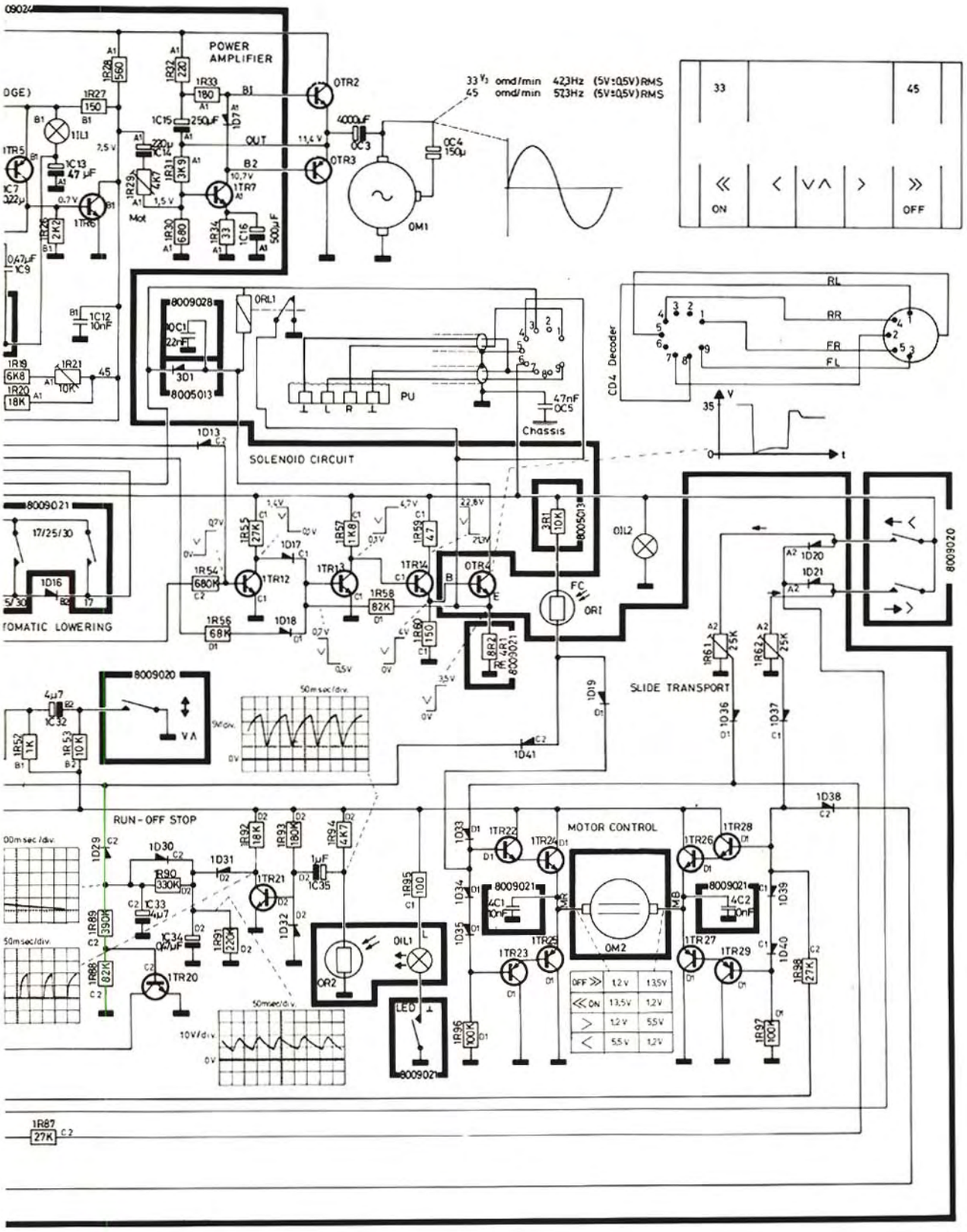

and they are measured with rotating turn-
rm over a record.

· resistor of at least 2 M ohms.

easured with rotating turntable and with

e pick-up liwered into an outlet groove

Alle DC Spannungen sind positiv im Verhältnis zu Masse und sie sind mit rotierendem Plattenteller, mit gehobenem Tonarm und mit dem Detektorarm über einer Platte gemessen.

Die Spannungen sind mit Voltmeter gemessen (Innenwiderstand min. 2 M ohm).

Die angegebenen Impulse des Detektorarmkreislaufes sind mit rotierendem Plattenteller und mit Detektorarm über den Ribben ohne Platte gemessen.

Die Impulse der Auslaufabschaltung sind mit dem Tonarm in einer Auslaufrille mit einer Steigung von etwa 3 mm/Umdrehungen auf 30 cm Platte gesenkt gemessen.

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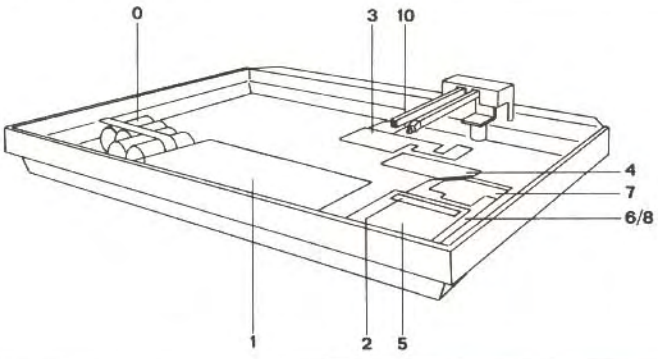
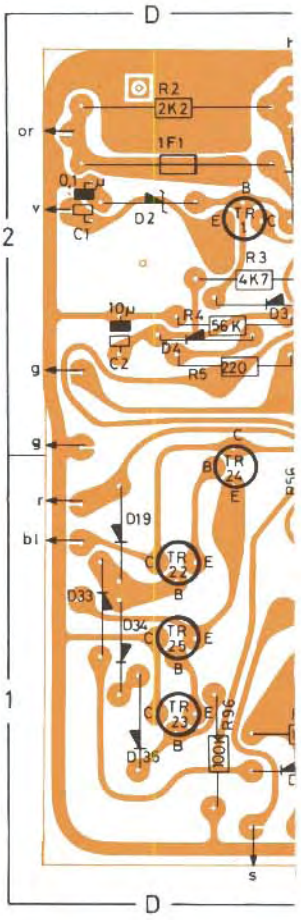
DIAGRAM 1

Beogram 4002 Type 5501 until no. 277556
Beogram 6000 Type 5502 until no. 260028



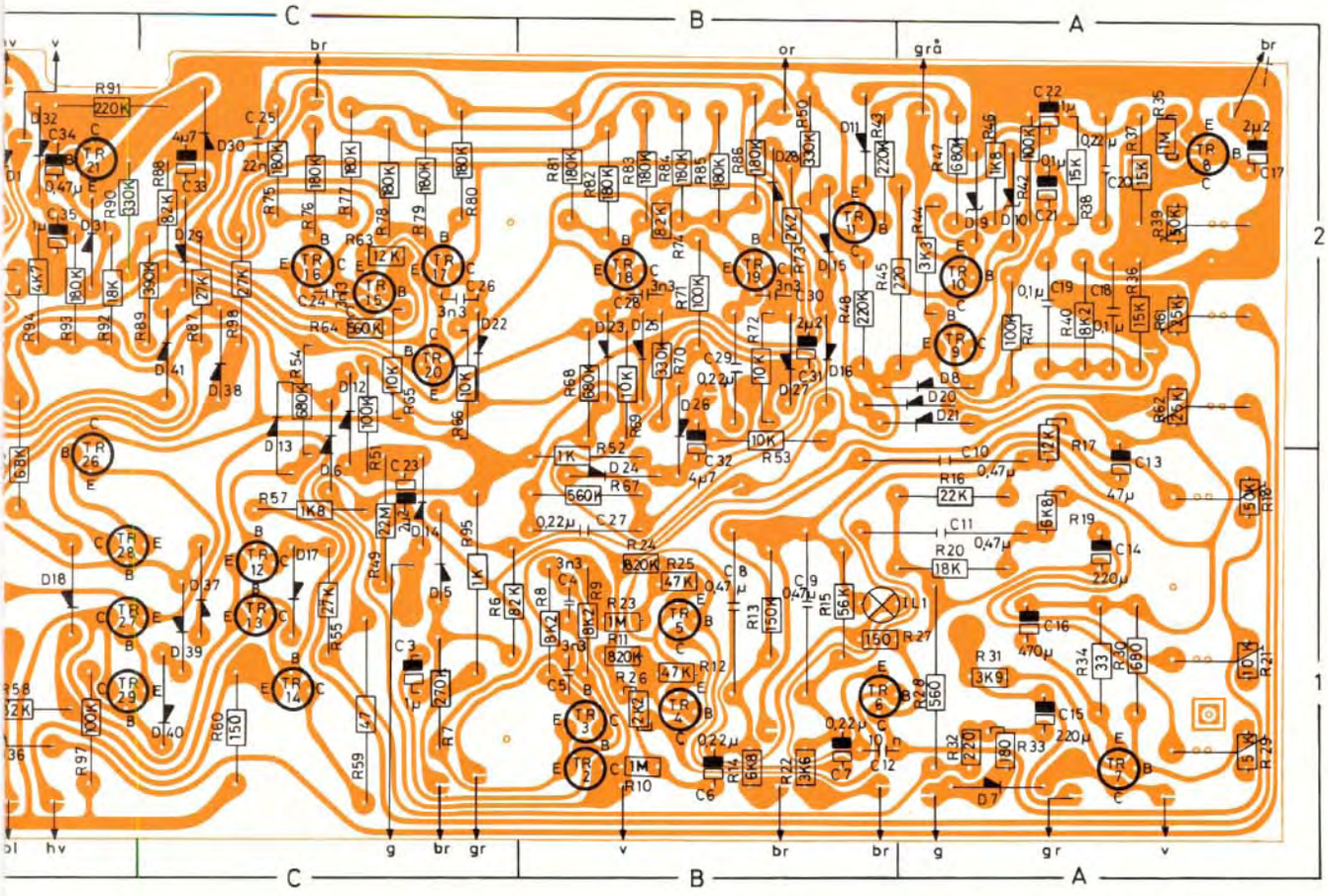


0

C			M		
C1	4200310	4000 µF 50 V	M1	8400066	
C2	4200310	4000 µF 50 V	M2	8400062	
C3	4200259	4000 µF 25 V	RL		
C4	4200260	150 µF 10 V BIPOLAR	RL1	6810001	
C5	4130087	47 nF 10% 250 V	PH		
IL			PH1	8760002	BP 100
IL1	8230047	6 V 50 mA	R		
IL2	8230044	24 V 25 mA	R1	5210004	ORP61

1 PC 8009024

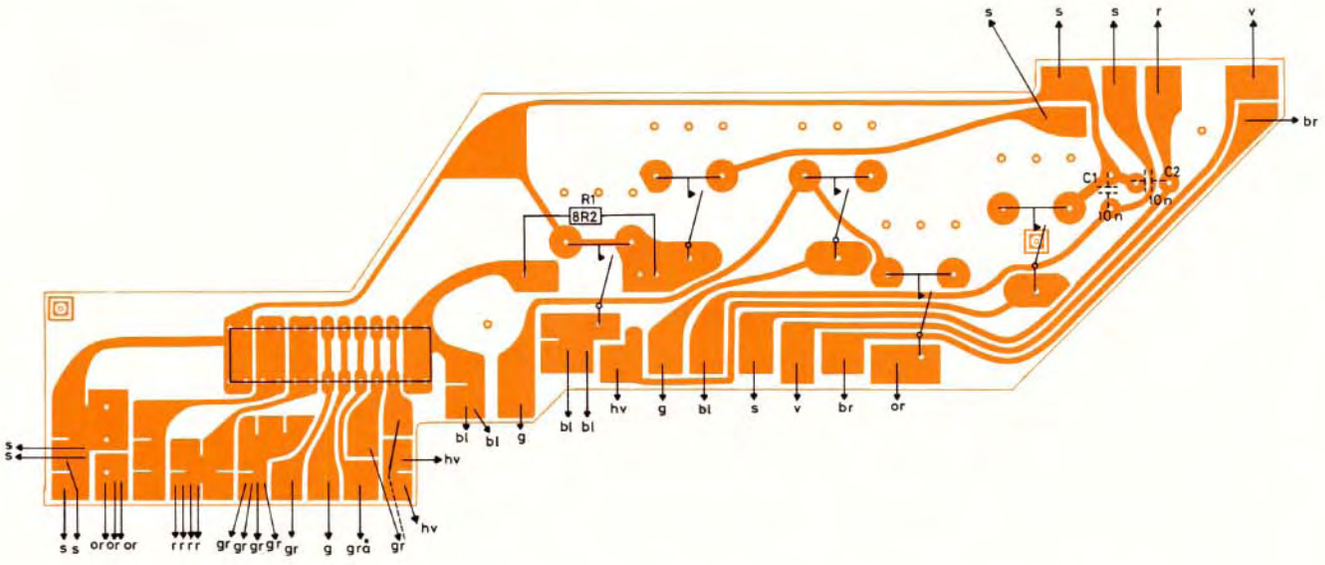
R			R33	5010362	180 Ohm 5% 1/8 W	R65	5010059	10 KOhm 5% 1/8 W
R2	5002028	2K2 Ohm 10% 1 W	R34	5010253	33 Ohm 5% 1/8 W	R66	5010059	10 KOhm 5% 1/8 W
R3	5010048	4K7 Ohm 5% 1/8 W	R35	5010054	1 MOhm 5% 1/8 W	R67	5010071	560 KOhm 5% 1/8 W
R4	5010061	56 KOhm 5% 1/8 W	R36	5010053	15 KOhm 5% 1/8 W	R68	5010074	680 KOhm 5% 1/8 W
R5	5010092	220 Ohm 5% 1/8 W	R37	5010053	15 KOhm 5% 1/8 W	R69	5010059	10 KOhm 5% 1/8 W
R6	5010091	82 KOhm 5% 1/8 W	R38	5010053	15 KOhm 5% 1/8 W	R70	5010117	330 KOhm 5% 1/8 W
R7	5010083	270 KOhm 5% 1/8 W	R39	5370061	50 KOhm 20% LIN	R71	5010049	100 KOhm 5% 1/8 W
R8	5010154	8K2 Ohm 5% 1/8 W	R40	5010154	8K2 Ohm 5% 1/8 W	R72	5010059	10 KOhm 5% 1/8 W
R9	5010154	8K2 Ohm 5% 1/8 W	R41	5010049	100 KOhm 5% 1/8 W	R73	5010064	2K2 Ohm 5% 1/8 W
R10	5010054	1 MOhm 5% 1/8 W	R42	5010049	100 KOhm 5% 1/8 W	R74	5010091	82 KOhm 5% 1/8 W
R11	5010505	820 KOhm 5% 1/8 W	R43	5010120	220 KOhm 5% 1/8 W	R75	5010072	180 KOhm 5% 1/8 W
R12	5010045	47 KOhm 5% 1/8 W	R44	5010076	3K3 Ohm 5% 1/8 W	R76	5010072	180 KOhm 5% 1/8 W
R13	5010063	150 KOhm 5% 1/8 W	R45	5002017	220 Ohm 10% 1 W	R77	5010072	180 KOhm 5% 1/8 W
R14	5010052	6K8 Ohm 5% 1/8 W	R46	5010066	1K8 Ohm 5% 1/8 W	R78	5010072	180 KOhm 5% 1/8 W
R15	5010061	56 KOhm 5% 1/8 W	R47	5010074	680 KOhm 5% 1/8 W	R79	5010072	180 KOhm 5% 1/8 W
R16	5010079	22 KOhm 5% 1/8 W	R48	5010120	220 KOhm 5% 1/8 W	R80	5010072	180 KOhm 5% 1/8 W
R17	5010042	12 KOhm 5% 1/8 W	R49	5001085	22 MOhm 10% 1/2 W	R81	5010072	180 KOhm 5% 1/8 W
R18	5370061	50 KOhm 20% LIN	R50	5010117	330 KOhm 5% 1/8 W	R82	5010072	180 KOhm 5% 1/8 W
R19	5010052	6K8 Ohm 5% 1/8 W	R51	5010049	100 KOhm 5% 1/8 W	R83	5010072	180 KOhm 5% 1/8 W
R20	5010135	18 KOhm 5% 1/8 W	R52	5010040	1 KOhm 5% 1/8 W	R84	5010072	180 KOhm 5% 1/8 W
R21	5370074	10 KOhm 20% LIN	R53	5010059	10 KOhm 5% 1/8 W	R85	5010072	180 KOhm 5% 1/8 W
R22	5010041	5K6 Ohm 5% 1/8 W	R54	5010074	680 KOhm 5% 1/8 W	R86	5010072	180 KOhm 5% 1/8 W
R23	5010054	1MOhm 5% 1/8 W	R55	5010141	27 KOhm 5% 1/8 W	R87	5010141	27 KOhm 5% 1/8 W
R24	5010505	820 KOhm 5% 1/8 W	R56	5010062	68 KOhm 5% 1/8 W	R88	5010091	82 KOhm 5% 1/8 W
R25	5010045	47 KOhm 5% 1/8 W	R57	5010066	1K8 Ohm 5% 1/8 W	R89	5010073	390 KOhm 5% 1/8 W
R26	5010064	2K2 Ohm 5% 1/8 W	R58	5010091	82 KOhm 5% 1/8 W	R90	5010117	330 KOhm 5% 1/8 W
R27	5010057	150 Ohm 5% 1/8 W	R59	5002008	470 Ohm 10% 1 W	R91	5010120	220 KOhm 5% 1/8 W
R28	5002022	560 Ohm 10% 1W	R60	5010057	150 Ohm 5% 1/8 W	R92	5010135	18 KOhm 5% 1/8 W
R29	5370058	5 KOhm 20% LIN	R61	5370068	25 KOhm 20% LIN	R93	5010072	180 KOhm 5% 1/8 W
R30	5010144	680 Ohm 5% 1/8 W	R62	5370068	25 KOhm 20% LIN	R94	5010048	4K7 Ohm 5% 1/8 W
R31	5010441	3K9 Ohm 5% 1/8 W	R63	5010042	12 KOhm 5% 1/8 W	R95	5002024	1 KOhm 10% 1W
R32	5010092	220 Ohm 5% 1/8 W	R64	5010071	560 KOhm 5% 1/8 W	R96	5010049	100 KOhm 5% 1/8 W



SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

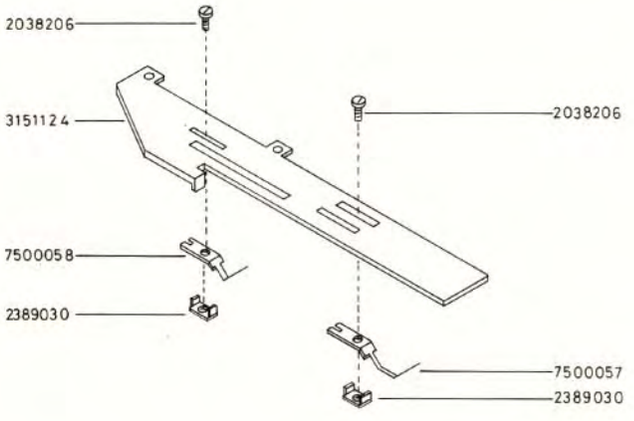
R97	5010049	100 KOhm 5% 1/8 W
R98	5010141	27 KOhm 5% 1/8 W
C		
C1	4200169	0,1 µF 35 V
C2	4201065	10 µF 63 V
C3	4201057	1 µF 35 V
C4	4011025	3n3F 10% 100 V
C5	4011025	3n3F 10% 100 V
C6	4201072	0,22 uF 35 V
C7	4201072	0,22 uF 35 V
C8	4130029	470 nF 10% 250 V
C9	4130029	470 nF 10% 250 V
C10	4130029	470 nF 10% 250 V
C11	4130029	470 nF 10% 250 V
C12	4010041	10 nF - 20% + 100% 40 V
C13	4201074	47 µF 40 V
C14	4200183	220 µF 25 V
C15	4200183	220 µF 25 V
C16	4200109	470 µF 6 V
C17	4201069	2µ2F 35 V
C18	4130075	100 nF 20% 250 V
C19	4130075	100 nF 20% 250 V
C20	4130082	220 nF 20% 250 V
C21	4200169	0,1 µF 35 V
C22	4201057	1 µF 35 V
C23	4201069	2µ2F 35 V
C24	4011025	3n3F 10% 100 V
C25	4010060	22 nF - 20 + 100% 40 V
C26	4011025	3n3F 10% 100 V
C27	4130082	220 nF 20% 250 V
C28	4011025	3n3F 10% 100 V
C29	4130082	220 nF 20% 250 V
C30	4011025	3n3F 10% 100 V
C31	4201069	2µ2F 35 V
C32	4200108	4µ7F 25 V
C33	4200108	4µ7F 25 V
C34	4201058	0,47 µF 35 V
C35	4201057	1 µF 35 V
IL		
IL1	8230041	6 V 30 mA
F		
F1	6600023	80 mA - T/250 V

Beogram 4002 Type 5501 until no. 277556
Beogram 6000 Type 5502 until no. 260028



SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

4 **PC 8009021**



R

R1	5110028	8R2 Ohm 10% 1W

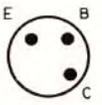
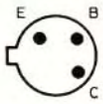
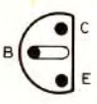
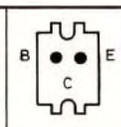
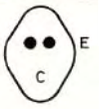
C

C1	4010041	10 nF - 20 + 100% 40 V
C2	4010041	10 nF - 20 + 100% 40 V

Bang & Olufsen

Beogram 4002 Type 5501 from no. 257556
Beogram 6000 Type 5502 from no. 260028

DIAGRAM 1

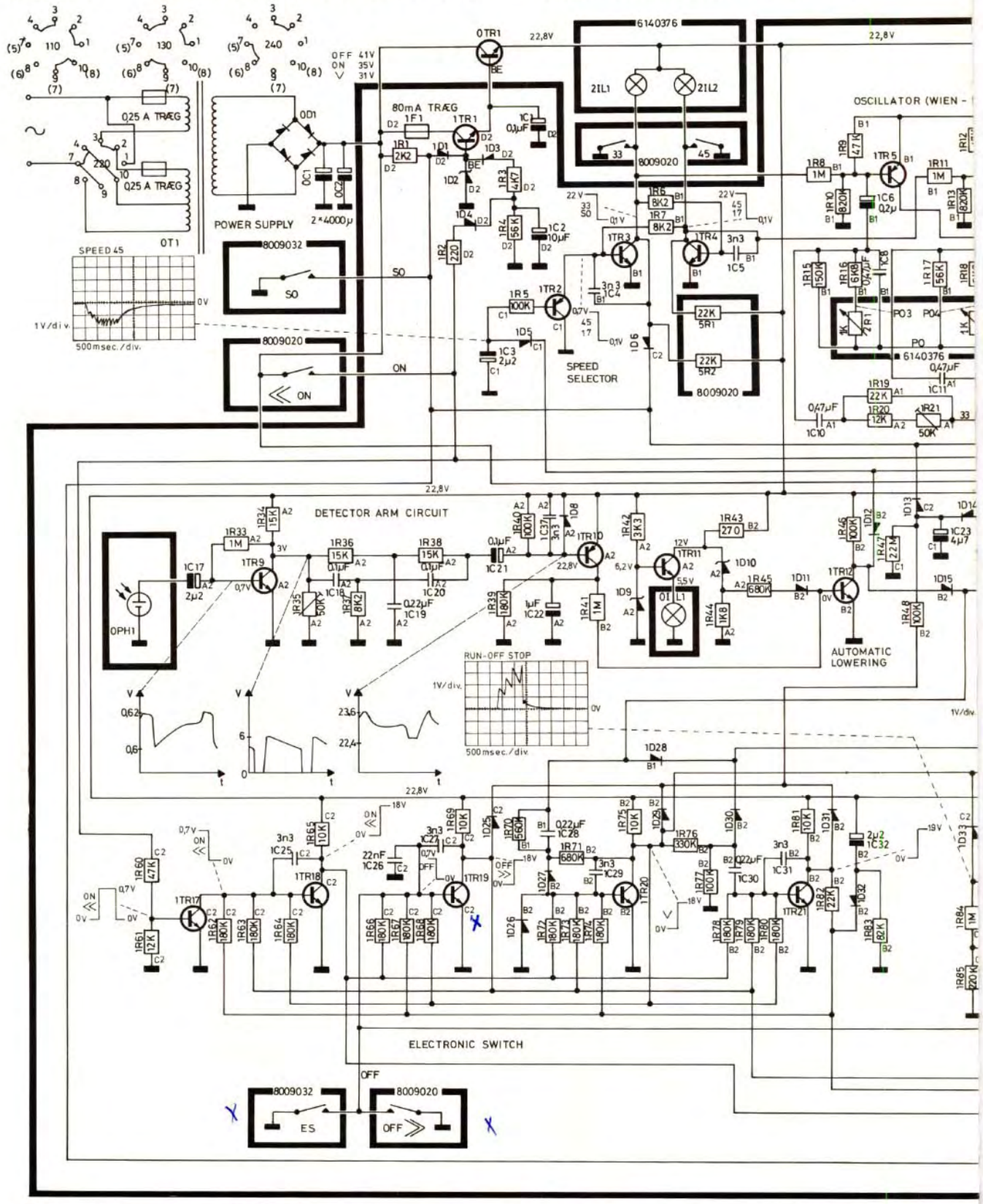
INDEX								
8320097	BC207B	BC107B	BC182BL	BC547B				
				BC237B				
				BC182B				
				BC171B				
8320103					2N5034			
					2N5035			
8320135		MM3005/						
		MM4005						
		BC143/						
		BC144						
		BC143/						
		BC142						
8320161		BC261B	BC212BL	BC212B				
				BC251B				
8320222						BD182		
						2N3055		
8320232		BC142						
		BC144						
8320265							TIP32	
8320266							TIP31	
8320295			BFR41	BC337				
8320312							TIP41A	

0TR1	8320103		1TR7	8320232		1TR19	8320097
0TR1	8320222		1TR8	8320232		1TR20	8320097
0TR2	8320266		1TR9	8320097		1TR21	8320097
0TR3	8320265		1TR10	8320161		1TR22	8320097
0TR4	8320312		1TR11	8320295		1TR23	8320097
			1TR12	8320097		1TR24	8320097
1TR1	8320232		1TR13	8320097		1TR25	8320135
1TR2	8320161		1TR14	8320097		1TR26	8320161
1TR3	8320097		1TR15	8320097		1TR27	8320135
1TR4	8320097		1TR16	8320232		1TR28	8320135
1TR5	8320161		1TR17	8320097		1TR29	8320097
1TR6	8320161		1TR18	8320097		1TR30	8320135
						1TR31	8320161

0D1	8310020	B80C2200		
1D2	8300054	ZPD24V±5%	BZX79C24V0	
1D9	8300201	ZPD6V2±5%	BZX79C6V2	
1D10	8300053	ZPD15V±5%	BZX79C15V0	BZY88C15
1D13	8300101	BAX16		
3D1	8300102	IN4004	EM504	
Other diodes	8300058	IN4148	SFD184	

Bang & Olufsen

DIAGRAM 1 Beogram 4002 Type 5501 from no. 257556 Beogram 6000 Type 5502 from no. 260028



Alle DC spændinger er positive i forhold til stel, og de er målt med roterende pladetallerken, med hævet pick-up arm og med detektorarmen inde over en plade. Spændingerne er målt med voltmeter med en indre modstand på mindst 2 Mohm.

De angivne impulser i detektorarmskredsløbet er målt med roterende pladetallerken og med detektorarmen inde over ribberne uden plade på.

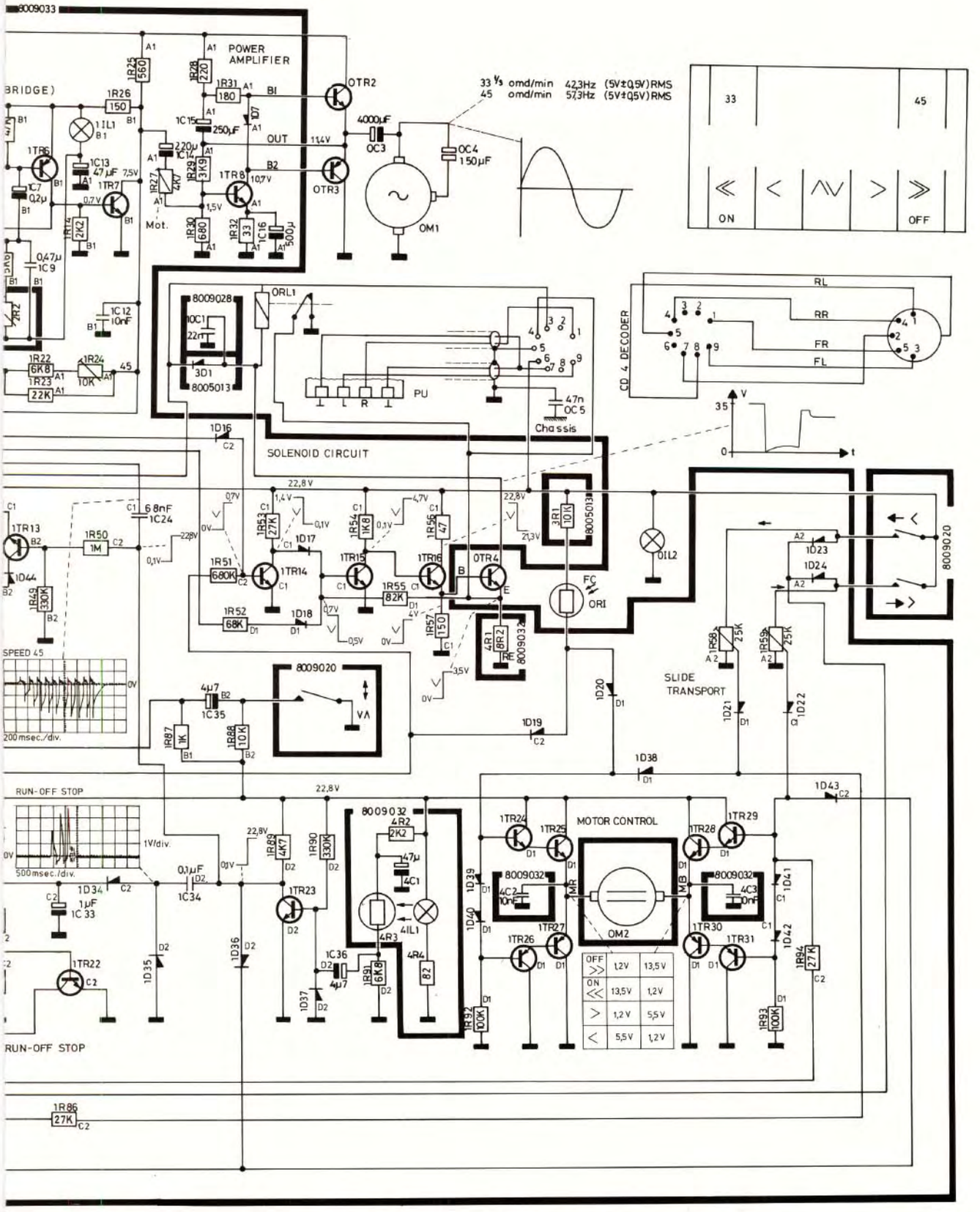
Oscillogrammer mærket SPEED 45 er målt med hævet pick-up arm under hurtig-ind transport, medens slædeskalaens speed 45 afsnit passerer fotomodstand og lampe.

Oscillogrammer mærket RUN-OFF STOP er målt med pick-up sænket i en udløbsrille, stigning ca. 3 mm/omdr., 30 cm plade.

All DC voltages are positive in proportion to ch turntable and raised pick-up arm and with the d measured by voltmeter and an inner resistor of

Oscillograms marked SPEED 45 are measured w transport while the speed 45 part of the carrier

Oscillograms marked RUN-OFF STOP are meas let groove, rise approx. 3 mm/turns, 30 cm rec



assis and they are measured with rotating letecfor arm over a record. The voltages are at least 2 M ohms.

ith raised pick-up arm during fast inward dial passes photo-resistor and lamp.

ured with pick-up arm lowered into an out-rd.

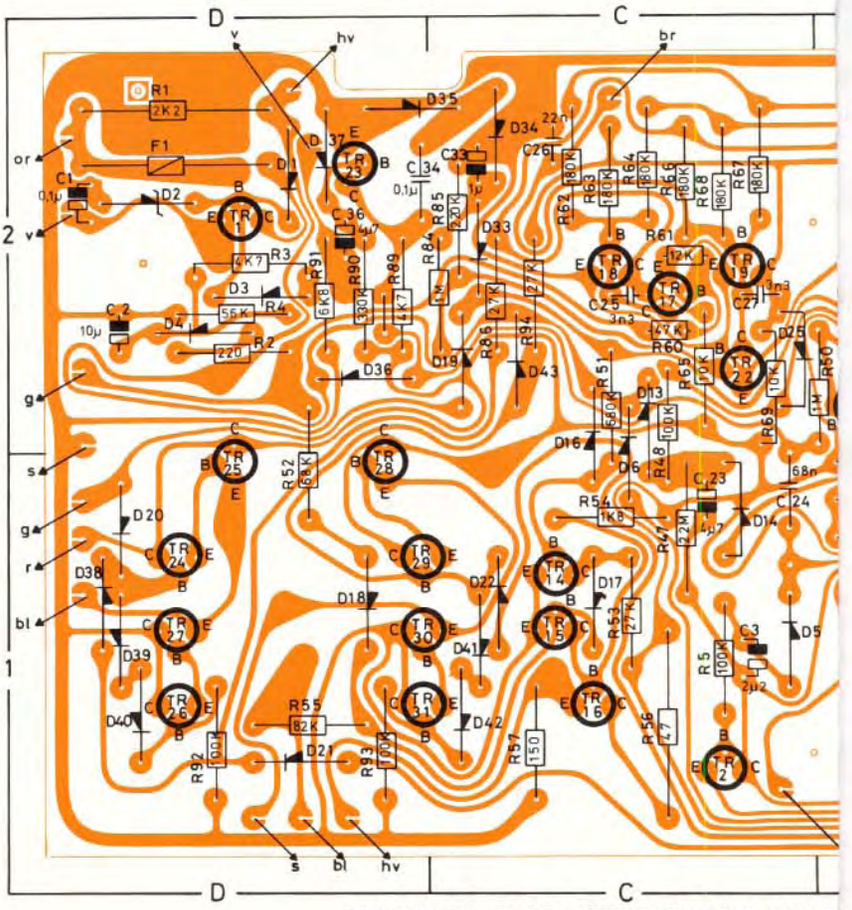
Alle DC Spannungen sind positiv im Verhältnis zu Masse und sie sind mit rotierendem Plattenteller, mit gehobenem Tonarm und mit dem Detektorarm über einer Platte gemessen. Die Spannungen sind mit Voltmeter gemessen (Innenwiderstand min. 2 M ohm).

Oszillogramme gezeichnet SPEED 45 sind mit gehobenem Tonarm während schnellen Hineintransports gemessen, während Abschnitt speed 45 der Schlitteskala Photowiderstand und Lampe passiert.

Oszillogramme gezeichnet RUN-OFF STOP sind mit dem Tonarm in einer Auslaufrille gesenkt, Steigung etwa 3 mm/Umdrehungen, 30 cm Platte, gemessen.

DIAGRAM 1

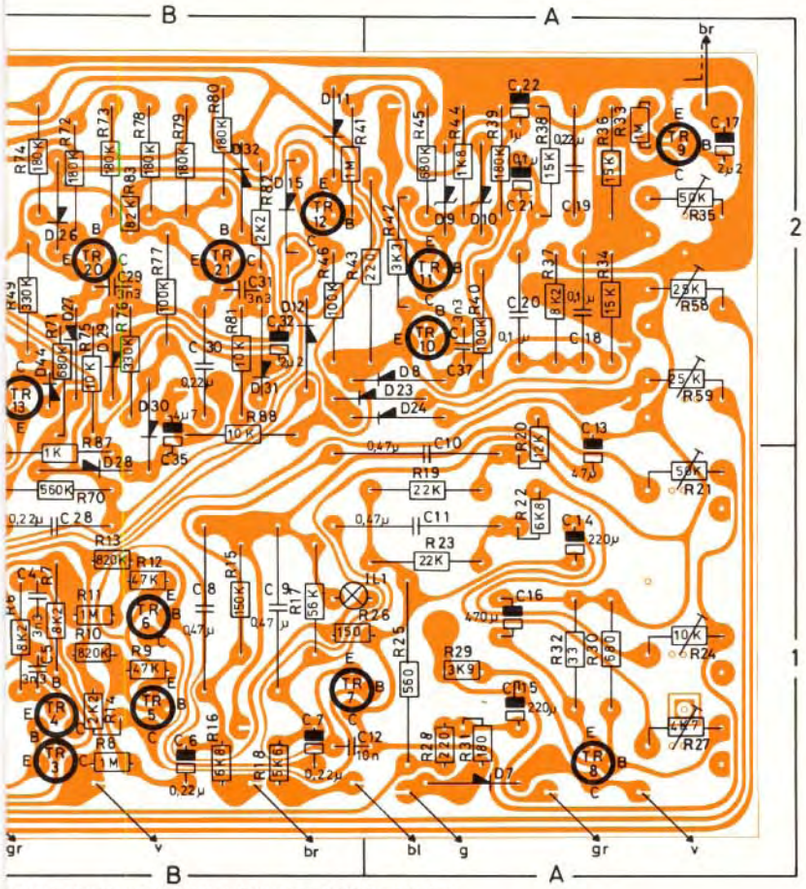
Beogram 4002 Type 5501 from no. 257556
Beogram 6000 Type 5502 from no. 260028



1 **PC 8009033**

R

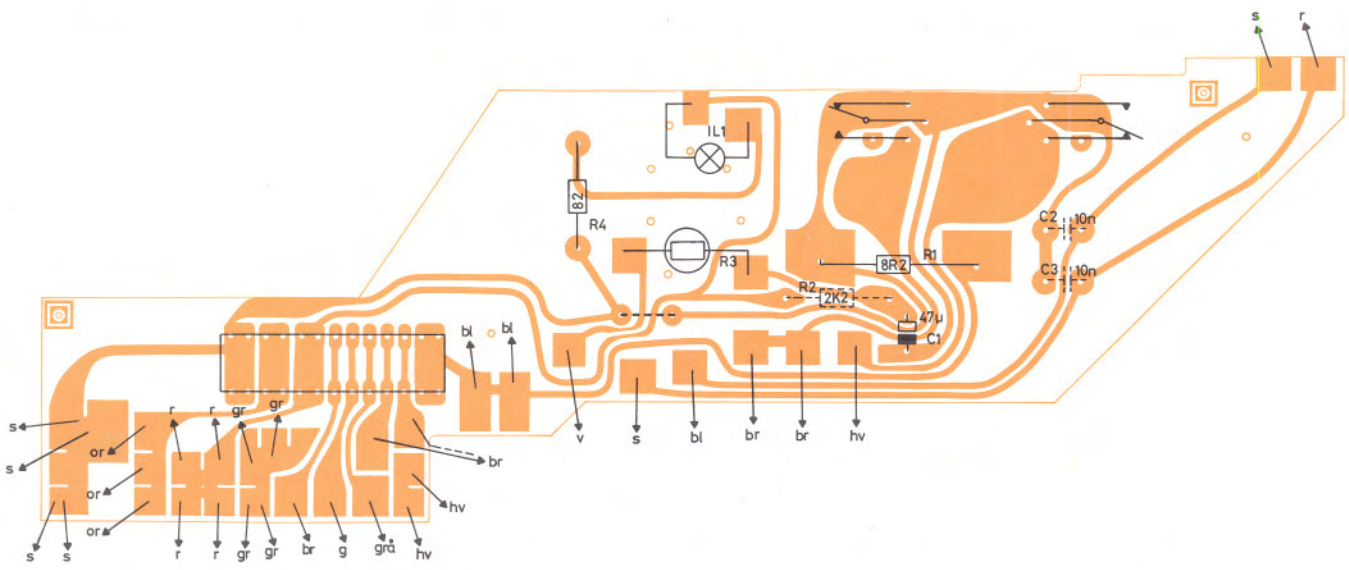
R1	5002028	2K2 Ohm 10% 1 W
R2	5010092	220 Ohm 5% 1/8 W
R3	5010048	4K7 Ohm 5% 1/8 W
R4	5010061	56 KOhm 5% 1/8 W
R5	5010049	100 KOhm 5% 1/8 W
R6	5010154	8K2 Ohm 5% 1/8 W
R7	5010154	8K2 Ohm 5% 1/8 W
R8	5010054	1 MOhm 5% 1/8 W
R9	5010640	47 KOhm 5% 1/8 W
R10	5010505	820 KOhm 5% 1/8 W
R11	5010054	1 MOhm 5% 1/8 W
R12	5010640	47 KOhm 5% 1/8 W
R13	5010505	820 KOhm 5% 1/8 W
R14	5010064	2K2 Ohm 5% 1/8 W
R15	5010063	150 KOhm 5% 1/8 W
R16	5010052	6K8 Ohm 5% 1/8 W
R17	5010061	56 KOhm 5% 1/8 W
R18	5010041	5K6 Ohm 5% 1/8 W
R19	5010079	22 KOhm 5% 1/8 W
R20	5010042	12 KOhm 5% 1/8 W
R21	5370061	50 KOhm 20% LIN
R22	5010052	6K8 Ohm 5% 1/8 W
R23	5010079	22 KOhm 5% 1/8 W
R24	5370074	10 KOhm 20% LIN
R25	5002022	560 Ohm 10% 1 W
R26	5010057	150 Ohm 5% 1/8 W
R27	5370058	4K7 Ohm 20% LIN
R28	5010092	220 Ohm 5% 1/8 W
R29	5010069	3K9 Ohm 5% 1/8 W
R30	5010144	680 Ohm 5% 1/8 W
R31	5010362	180 Ohm 5% 1/8 W
R32	5010253	33 Ohm 5% 1/8 W
R33	5010054	1 MOhm 5% 1/8 W
R34	5010053	15 KOhm 5% 1/8 W
R35	5370061	50 KOhm 20% LIN
R36	5010053	15 KOhm 5% 1/8 W
R37	5010154	8K2 Ohm 5% 1/8 W
R38	5010053	15 KOhm 5% 1/8 W
R39	5010072	180 KOhm 5% 1/8 W
R40	5010049	100 KOhm 5% 1/8 W
R41	5010054	1 MOhm 5% 1/8 W
R42	5010076	3K3 Ohm 5% 1/8 W
R43	5002018	270 Ohm 10% 1 W
R44	5010066	1K8 Ohm 5% 1/8 W
R45	5010074	680 KOhm 5% 1/8 W
R46	5010049	100 KOhm 5% 1/8 W
R47	5001085	22 MOhm 10% 1/2 W
R48	5010049	100 KOhm 5% 1/8 W
R49	5010117	330 KOhm 5% 1/8 W
R50	5010054	1 MOhm 5% 1/8 W
R51	5010074	680 KOhm 5% 1/8 W
R52	5010062	68 KOhm 5% 1/8 W
R53	5010141	27 KOhm 5% 1/8 W
R54	5010066	1K8 Ohm 5% 1/8 W
R55	5010091	82 KOhm 5% 1/8 W
R56	5002008	47 Ohm 10% 1 W
R57	5010057	150 Ohm 5% 1/8 W
R58	5370068	25 KOhm 20% LIN
R59	5370068	25 KOhm 20% LIN
R60	5010640	47 KOhm 5% 1/8 W
R61	5010042	12 KOhm 5% 1/8 W
R62	5010072	180 KOhm 5% 1/8 W
R63	5010072	180 KOhm 5% 1/8 W
R64	5010072	180 KOhm 5% 1/8 W
R65	5010059	10 KOhm 5% 1/8 W
R66	5010072	180 KOhm 5% 1/8 W
R67	5010072	180 KOhm 5% 1/8 W
R68	5010072	180 KOhm 5% 1/8 W
R69	5010059	10 KOhm 5% 1/8 W
R70	5010071	560 KOhm 5% 1/8 W
R71	5010074	680 KOhm 5% 1/8 W
R72	5010072	180 KOhm 5% 1/8 W
R73	5010072	180 KOhm 5% 1/8 W
R74	5010072	180 KOhm 5% 1/8 W
R75	5010059	10 KOhm 5% 1/8 W
R76	5010117	330 KOhm 5% 1/8 W
R77	5010049	100 KOhm 5% 1/8 W
R78	5010072	180 KOhm 5% 1/8 W
R79	5010072	180 KOhm 5% 1/8 W
R80	5010072	180 KOhm 5% 1/8 W
R81	5010059	10 KOhm 5% 1/8 W
R82	5010079	22 KOhm 5% 1/8 W
R83	5010091	82 KOhm 5% 1/8 W
R84	5010054	1 MOhm 5% 1/8 W
R85	5010120	220 KOhm 5% 1/8 W
R86	5010141	27 KOhm 5% 1/8 W
R87	5010040	1 KOhm 5% 1/8 W
R88	5010059	10 KOhm 5% 1/8 W
R89	5010048	4K7 Ohm 5% 1/8 W
R90	5010117	330 KOhm 5% 1/8 W
R91	5010052	6K8 Ohm 5% 1/8 W
R92	5010049	100 KOhm 5% 1/8 W



SIDE / VON DER LEITERSEITE AUSGESEHEN

R93	5010049	100 KOhm 5% 1/8 W
R94	5010141	27 KOhm 5% 1/8 W
C		
C1	4200169	0,1 µF 35 V
C2	4201065	10 µF 63 V
C3	4201069	2µ2 F 35 V
C4	4011025	3n3 F 10% 100 V
C5	4011025	3n3 F 10% 100 V
C6	4201072	0,22 µF 35 V
C7	4201072	0,22 µF 35 V
C8	4130029	470 nF 10% 250 V
C9	4130029	470 nF 10% 250 V
C10	4130029	470 nF 10% 250 V
C11	4130029	470 nF 10% 250 V
C12	4010041	10 nF - 20% + 100% 40 V
C13	4201074	47 µF 40 V
C14	4200183	220 µF 25 V
C15	4200183	220 µF 25 V
C16	4200109	470 µF 6 V
C17	4201069	2µ2F 35 V
C18	4130075	100 nF 20% 250 V
C19	4130082	220 nF 20% 250 V
C20	4130075	100 nF 20% 250 V
C21	4200169	0,1 µF 35 V
C22	4201057	1 µF 35 V
C23	4200108	4µ7 F 25 V
C24	4130100	68 nF 10% 250 V
C25	4011025	3n3 F 10% 100 V
C26	4010060	22 nF - 20% + 100% 40 V
C27	4011025	3n3F 10% 100 V
C28	4130082	220 nF 20% 250 V
C29	4011025	3n3F 10% 100 V
C30	4130082	220 nF 20% 250 V
C31	4011025	3n3F 10% 100 V
C32	4201069	2µ2 F 35 V
C33	4201057	1 µF 35 V
C34	4130075	100 nF 20% 250 V
C35	4200108	4µ7F 25 V
C36	4200108	4µ7F 25 V
C37	4011025	3n3F 10% 100 V
IL		
IL1	8230041	6 V 30 mA
F		
F1	6600023	80 mA-T/250 V

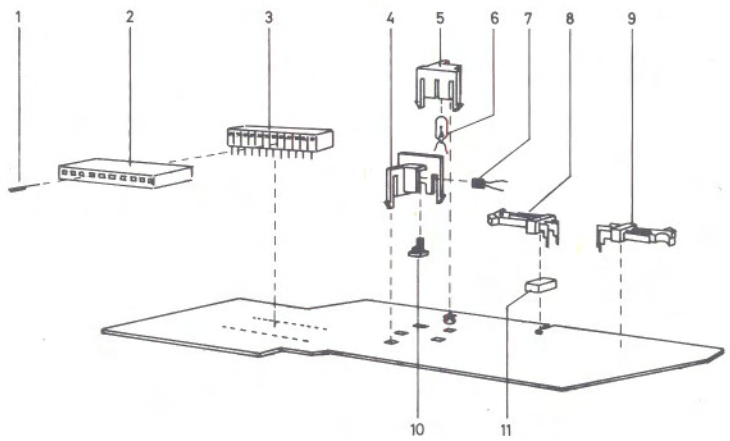
Beogram 4002 Type 5501 from no. 257556
Beogram 6000 Type 5502 from no. 260028



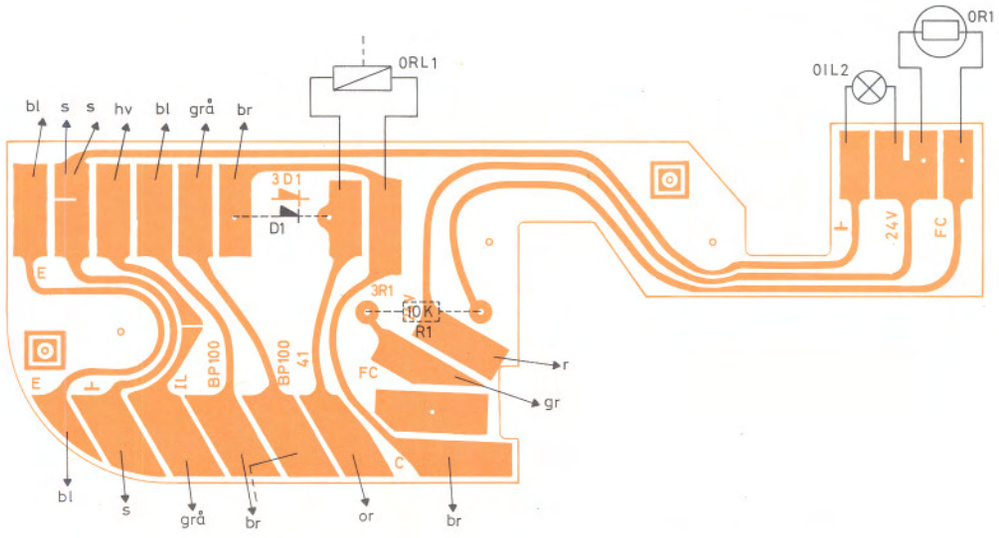
SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

4 **PC 8009032**

R			C			IL		
R1	5110028	8R2 Ohm 10% 1 W	C1	4201074	47 uF 40 V	IL1	8230044	24 V 25 mA
R2	5010064	2K2 Ohm 5% 1/8 W	C2	4010041	10 nF - 20% + 100% 40 V			
R3	5210005	RPY 58						
R4	5010056	82 Ohm 5% 1/8 W						



		MEKANISK STYKLISTE FOR PC 8009032	MECHANICAL PARTS LIST FOR PC 8009032	MECHANISCHE STÜCKLISTE FÜR PC 8009032
1	7500105	Stikben	Pin	Stift
2	7220060	Hus for stikben	Housing for pin	Gehäuse für Stift
3	7210072	Fatning	Socket	Fassung
4	3131099	Hus	Housing	Gehäuse
5	3131098	Hus	Housing	Gehäuse
6	8230044	Lampe 24V - 25 mA	Lamp 24 V - 25 mA	Lampe 24 V - 25 mA
7	5210005	Fotomodstand RPY 58	Photoresistor RPY 58	Fotowiederstand RPY 58
8	7400115	Mikroomskifter	Switch	Umschalter
9	7400115	Mikroomskifter	Switch	Umschalter
10	3454170	Bundstykke	Bottom	Bodenstück
11	3103077	Fod	Insert	Zwischeneinlegstück

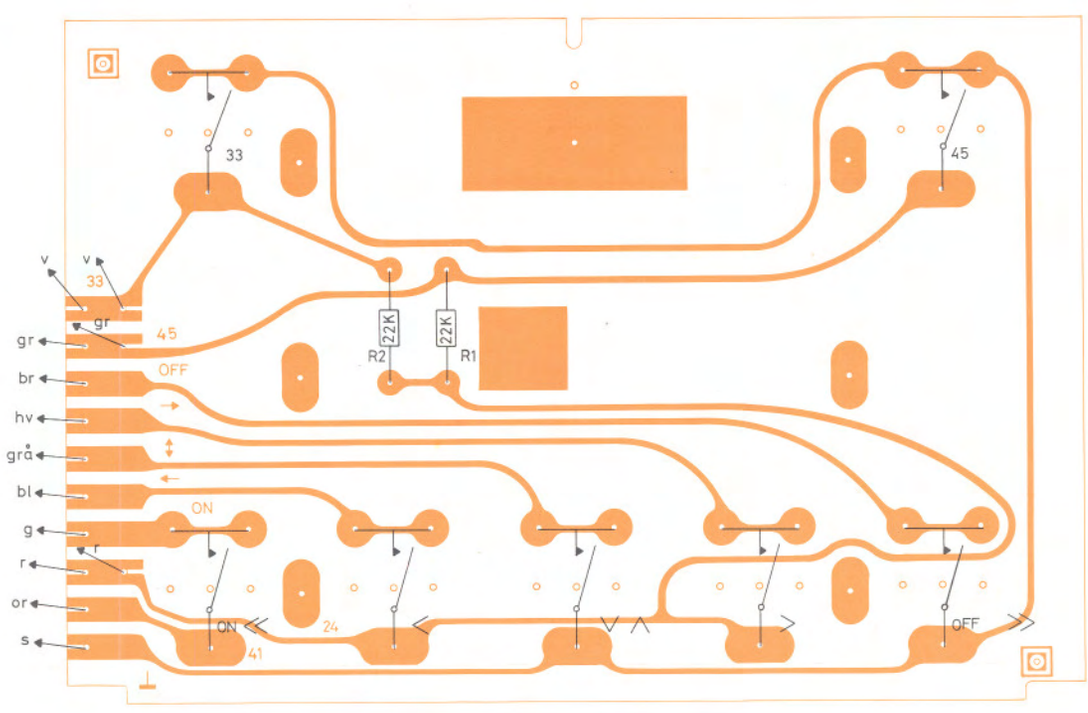


SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

3 **PC 8005013**

R

R1	5010059	10 KOhm 5% 1/8 W



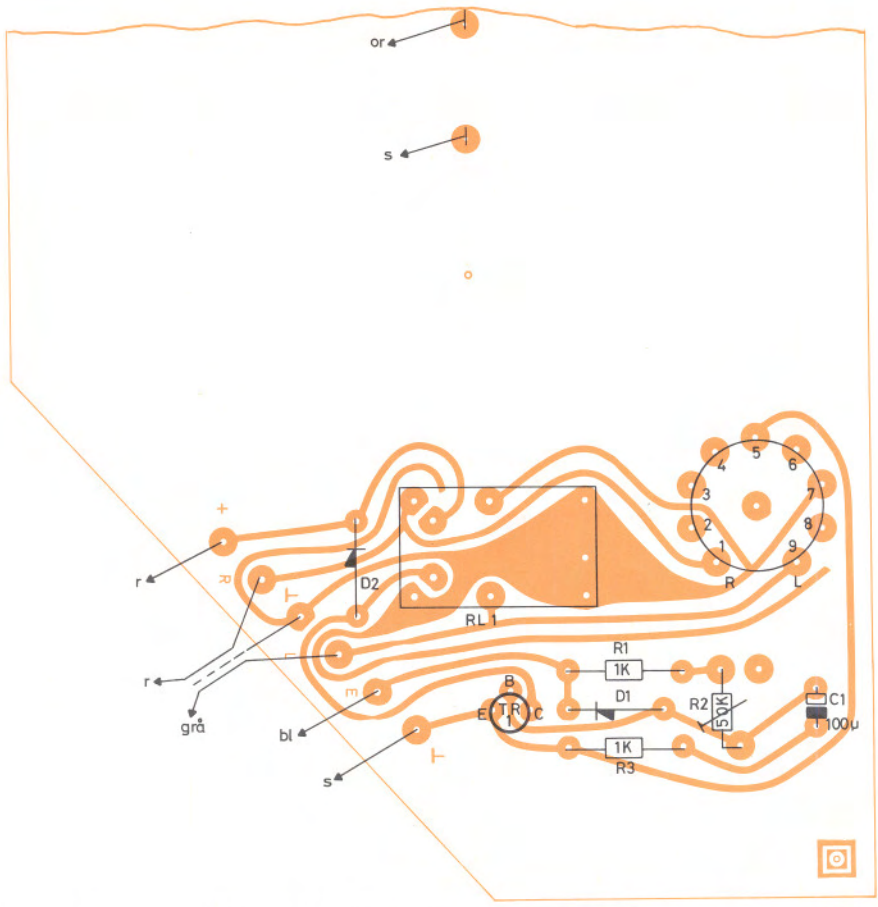
SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

5 **PC 8009020**

R

R1	5010079	22 KOhm 5% 1/8 W
R2	5010079	22 KOhm 5% 1/8 W

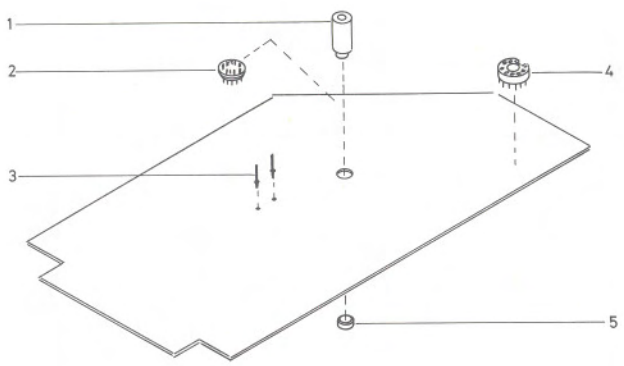
DIAGRAM 2



SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

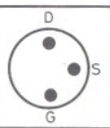
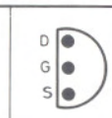
8 PC 8009029

R			C			RL		
R1	5370169	50 KOhm 20% LIN.	C1	4200098	100 µF 6 V 3	RL1	7600007	
R2	5010040	1 KOhm 5% 1/8 W						
R3	5010040	1 KOhm 5% 1/8 W						



	MEKANISK STYKLISTE FOR PC 8009029		MECHANICAL PARTS LIST FOR PC 8009029	MECHANISCHE STÜCKLISTE FÜR PC 8009029
1	2938092	Bøsning for dekoder	Bushing for decoder	Buchse für Dekoder
2	7220066	Noval stik	Noval plug	Novalstecker
3	7500013	Kontaktspyd	Contact spear	Kontaktstift
4	7203003	Noval fatning	Noval socket	Novalfassung
5	2938093	Bøsning, støtterør	Bushing, brace piping	Buchse, Rohranker

DIAGRAM 2

INDEX									
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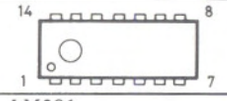
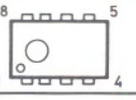
			3C2						
			TIS88A						
8320137				BC182B					
8320258						TIP31A	2N4922	2N5296	
8340028					MPSA13				
					SPS5418				

6TR1 (201)	8320137	6TR10	8320137	6TR18	8320258
6TR3 (203)	8320137	6TR11	8320137		
6TR4 (204)	8320137	6TR12	8320137	7TR1 (201)	8320137
6TR5 (205)	8320136	6TR13	8320137	7TR2 (202)	8320354
6TR6 (206)	8320137	6TR14	8320137		
6TR7 (207)	8320137	6TR15	8320137	8TR1	8340028
6TR8 (208)	8320136	6TR16	8320137		
6TR9	8320137	6TR17	8320137		

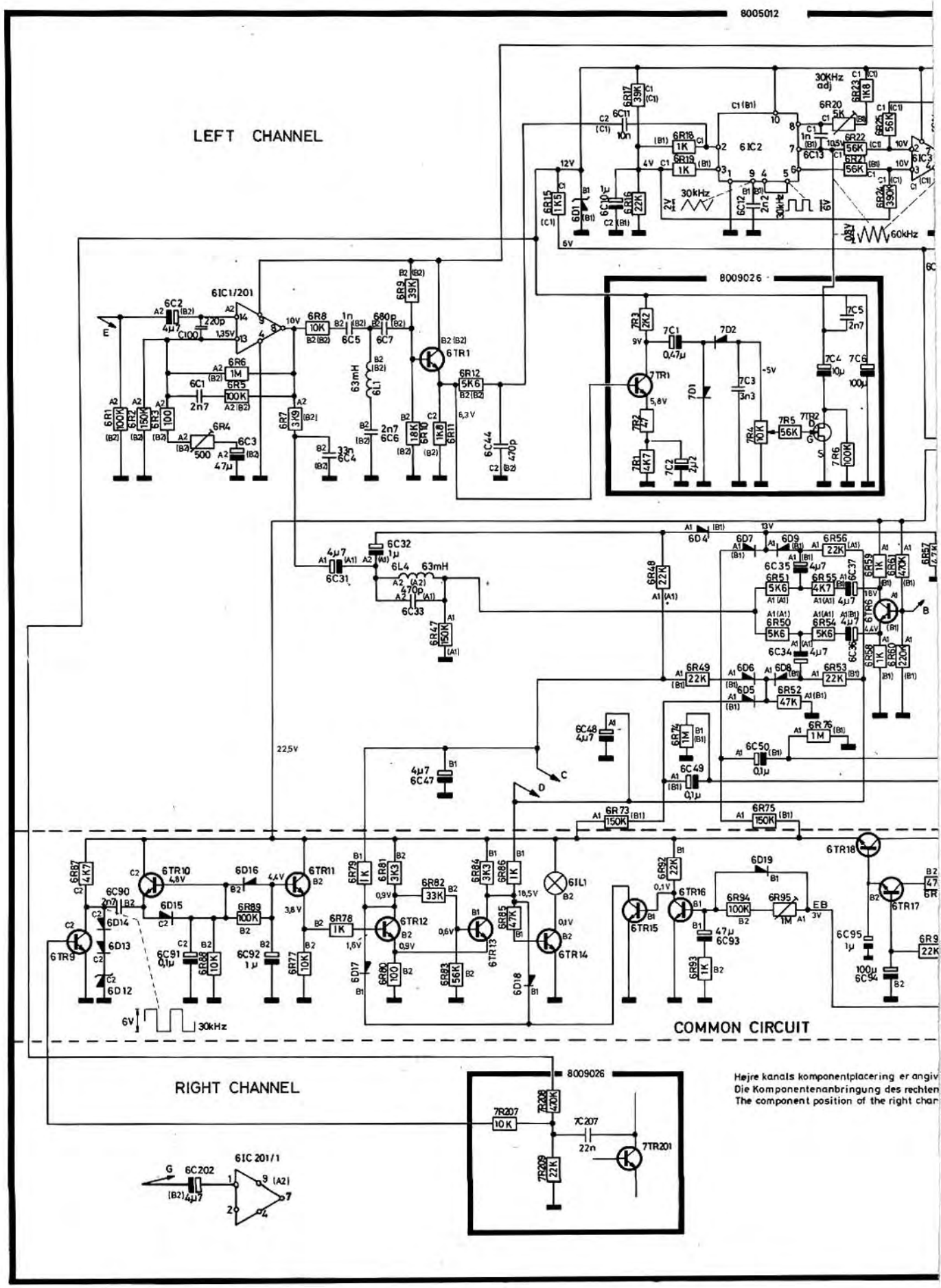
INDEX			
8340038	LM381		
8340039		LM307	
8340040	LM565		

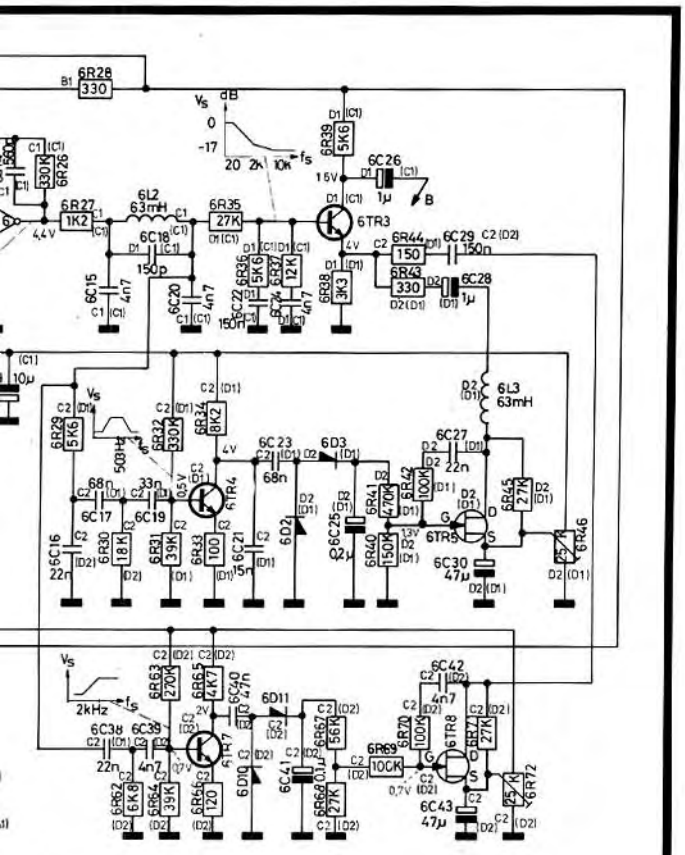
6IC1/201	8340038
6IC2 (202)	8340040
6IC3 (203)	8340039

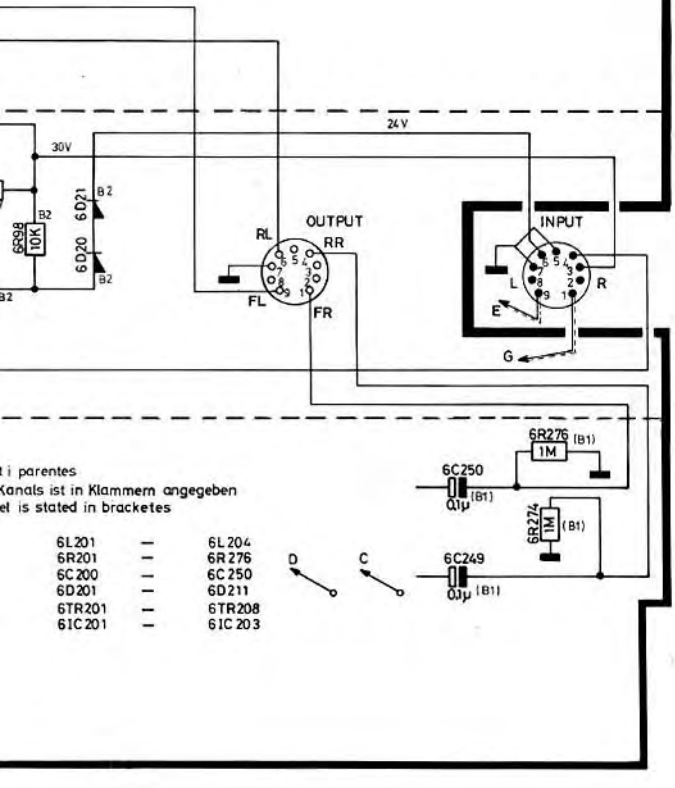
6D1	8300029	ZF 12V±5%	BZX79 C12V0
6D2 (202)	8300009	OA90	
6D3 (203)	8300009	OA 90	
6D10 (210)	8300009	OA 90	
6D11 (211)	8300009	OA 90	
6D12	8300036	ZF 4;7V±5%	BZX79 C4V7
6D19	8300009	OA 90	
7D1 (201)	8300042	OA 91	
7D2 (202)	8300042	OA 91	
8D1	8300042	OA 91	
Other diodes	8300131	IN4148	

Bang & Olufsen

DIAGRAM 2



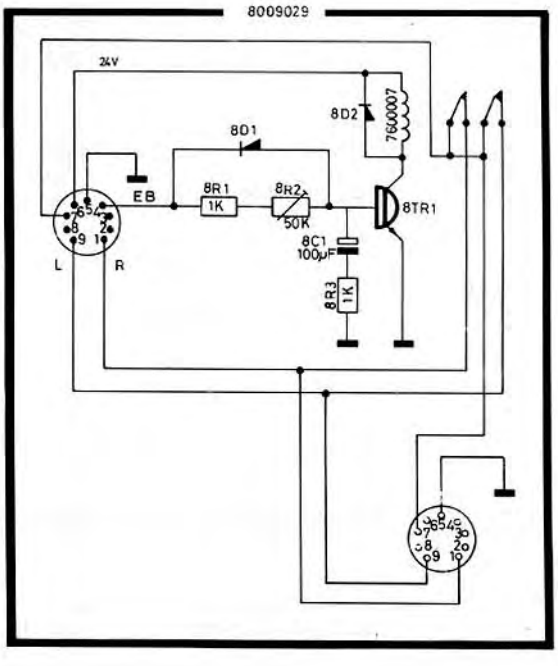


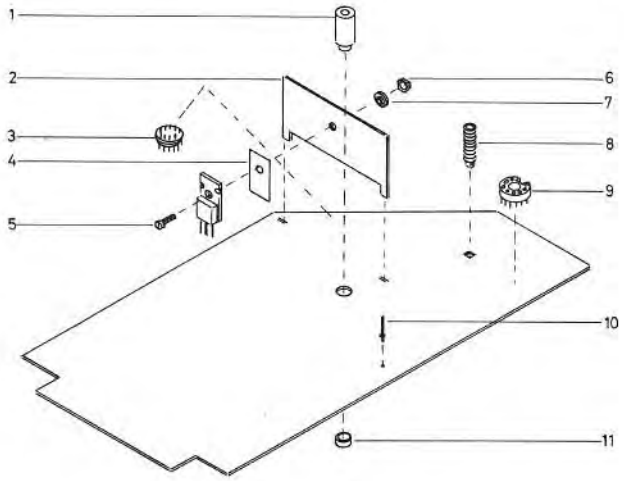


De angivne spændinger er positive i forhold til stel, og er målt med CD-4 signal på indgangen.
Input – 60 dBm (775 µV rms).
f mod. = 1 kHz; Δ f = 1,3 kHz.

The stated voltages are positive in proportion to the chassis, and measured with CD-4 signal at the inputs.
Input – 60 dBm (775 µV rms).
f mod. = 1 kHz; Δ f = 1,3 kHz.

Die angegebenen Spannungen sind positiv im Verhältnis zu dem Chassis und sind mit CD-4 Signal auf dem Eingang gemessen.
Input – 60 dBm (775 µV rms).
f mod. = 1 kHz; Δ f = 1,3 kHz.





		MEKANISK STYKLISTE FOR PC 8005012	MECHANICAL PARTSLIST FOR PC 8005012	MECHANISCHE STÜCKLISTE FÜR PC 8005012
1	2938093	Bøsning, støtterør	Bushing, brace piping	Buchse, Rohranker
2	3358096	Køleplade	Heat sink	Kühlblech
3	7220056	Noval stik	Noval plug	Novalstecker
4	3170121	Glimmerskive	Mica sheet	Glimmerscheibe
5	2038954	Skrue AM 3 x 6 DIN 963	Screw, AM 3 x 6 DIN 963	Schraube, AM 3 x 6 DIN 963
6	2380011	Møtrik M 3	Nut M 3	Mutter M 3
7	2938097	Isolationsbøsning	Insulating bushing	Isolierbuchse
8	0514075	Spoleform	Coil form	Spuleform
9	7203003	Noval fatning	Noval socket	Novalfassung
10	7500013	Stikben	Contact plug	Stiftstecker
11	2938092	Bøsning for decoder	Bushing for decoder	Buchse für Dekoder

6 PC 8005012

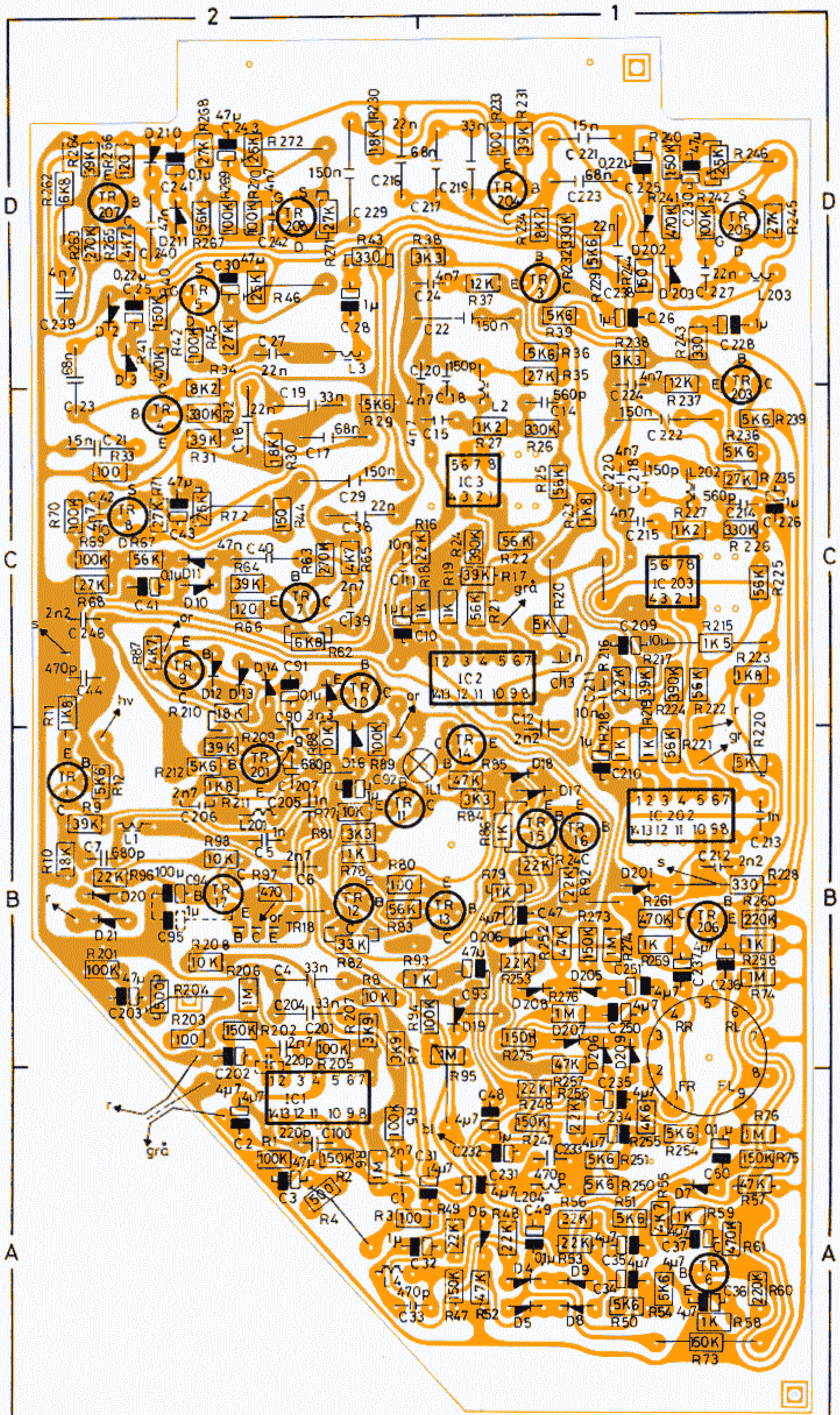
DECODER

R

R1 (R201)	5010049	100 KOhm 5% 1/8 W
R2 (R202)	5010063	150 KOhm 5% 1/8 W
R3 (R203)	5010065	100 Ohm 5% 1/8 W
R4 (R204)	5370186	500 Ohm 20% LIN.
R5 (R205)	5010049	100 KOhm 5% 1/8 W
R6 (R206)	5010054	1 MOhm 5% 1/8 W
R7 (R207)	5010069	3K9 Ohm 5% 1/8 W
R8 (R208)	5010059	10 KOhm 5% 1/8 W
R9 (R209)	5010060	39 KOhm 5% 1/8 W
R10 (R210)	5010135	18 KOhm 5% 1/8 W
R11 (R211)	5010066	1K8 Ohm 5% 1/8 W
R12 (R212)	5010041	5K6 Ohm 5% 1/8 W
(R215)	5010247	1K5 Ohm 5% 1/8 W
R16 (R216)	5010079	22 KOhm 5% 1/8 W
R17 (R217)	5010060	39 KOhm 5% 1/8 W
R18 (R218)	5010040	1 KOhm 5% 1/8 W
R19 (R219)	5010040	1 KOhm 5% 1/8 W
R20 (R220)	5370058	5 KOhm 20% LIN.
R21 (R221)	5010061	56 KOhm 5% 1/8 W
R22 (R222)	5010061	56 KOhm 5% 1/8 W
R23 (R223)	5010066	1K8 Ohm 5% 1/8 W
R24 (R224)	5010073	390 KOhm 5% 1/8 W
R25 (R225)	5010061	56 KOhm 5% 1/8 W
R26 (R226)	5010117	330 KOhm 5% 1/8 W
R27 (R227)	5010153	1K2 Ohm 5% 1/8 W
(R228)	5001028	330 Ohm 10% 1/2 W
R29 (R229)	5010041	5K6 Ohm 5% 1/8 W
R30 (R230)	5010135	18 KOhm 5% 1/8 W
R31 (R231)	5010060	39 KOhm 5% 1/8 W
R32 (R232)	5010117	330 KOhm 5% 1/8 W
R33 (R233)	5010065	100 Ohm 5% 1/8 W
R34 (R234)	5010154	8K2 Ohm 5% 1/8 W
R35 (R235)	5010141	27 KOHm 5% 1/8 W
R36 (R236)	5010041	5K6 Ohm 5% 1/8 W
R37 (R237)	5010042	12 KOhm 5% 1/8 W
R38 (R238)	5010076	3K3 Ohm 5% 1/8 W
R39 (R239)	5010041	5K6 Ohm 5% 1/8 W
R40 (R240)	5010063	150 KOhm 5% 1/8 W
R41 (R241)	5010077	470 KOhm 5% 1/8 W
R42 (R242)	5010049	100 KOhm 5% 1/8 W
R43 (R243)	5010044	330 Ohm 5% 1/8 W
R44 (R244)	5010452	150 Ohm 5% 1/8 W
R45 (R245)	5010141	27 KOhm 5% 1/8 W
R46 (R246)	5370068	25 KOhm 20% LIN.
R47 (R247)	5010063	150 KOhm 5% 1/8 W
R48 (R248)	5010079	22 KOhm 5% 1/8 W
R49 (R249)	5010079	22 KOhm 5% 1/8 W
R50 (R250)	5010041	5K6 Ohm 5% 1/8 W
R51 (R251)	5001041	5K6 Ohm 5% 1/8 W
R52 (R252)	5010045	47 KOhm 5% 1/8 W
R53 (R253)	5010079	22 KOhm 5% 1/8 W
R54 (R254)	5010041	5K6 Ohm 5% 1/8 W
R55 (R255)	5010048	4K7 Ohm 5% 1/8 W
R56 (R256)	5010079	22 KOhm 5% 1/8 W
R57 (R257)	5010045	47 KOhm 5% 1/8 W
R58 (R258)	5010040	1 KOhm 5% 1/8 W
R59 (R259)	5010040	1 KOhm 5% 1/8 W
R60 (R260)	5010120	220 KOhm 5% 1/8 W
R61 (R261)	5010077	470 KOhm 5% 1/8 W
R62 (R262)	5010052	6K8 Ohm 5% 1/8 W
R63 (R263)	5010083	270 KOhm 5% 1/8 W
R64 (R264)	5010060	39 KOhm 5% 1/8 W
R65 (R265)	5010048	4K7 Ohm 5% 1/8 W
R66 (R266)	5010128	120 Ohm 5% 1/8 W
R67 (R267)	5010061	56 KOhm 5% 1/8 W
R68 (R268)	5010141	27 KOhm 5% 1/8 W
R69 (R269)	5010049	100 KOhm 5% 1/8 W
R70 (R270)	5010049	100 KOhm 5% 1/8 W
R71 (R271)	5010141	27 KOhm 5% 1/8 W
R72 (R272)	5370068	25 KOhm 20% LIN.
R73 (R273)	5010063	150 KOhm 5% 1/8 W
R74 (R274)	5010054	1 MOhm 5% 1/8 W
R75 (R275)	5010063	150 KOhm 5% 1/8 W
R76 (R276)	5010054	1 MOhm 5% 1/8 W
R77	5010059	10 KOhm 5% 1/8 W
R78	5010040	1 KOhm 5% 1/8 W
R79	5010040	1 KOhm 5% 1/8 W

3-12

DIAGRAM 2



SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

R80	5010065	100 Ohm 5% 1/8 W
R81	5010076	3K3 KOhm 5% 1/8 W
R82	5010075	33 KOhm 5% 1/8 W
R83	5010061	56 KOhm 5% 1/8 W
R84	5010076	3K3 Ohm 5% 1/8 W
R85	5010045	47 KOhm 5% 1/8 W
R86	5010040	1 KOhm 5% 1/8 W
R87	5010048	4K7 Ohm 5% 1/8 W
R88	5010059	10 KOhm 5% 1/8 W
R89	5010049	100 KOhm 5% 1/8 W
R92	5010079	22 KOhm 5% 1/8 W
R93	5010040	1 KOhm 5% 1/8 W
R94	5010049	100 KOhm 5% 1/8 W
R95	5010054	1 MOhm 5% 1/8 W
R96	5010079	22 KOhm 5% 1/8 W
R97	5010058	470 KOhm 5% 1/8 W
R98	5010059	10 KOhm 5% 1/8 W

C

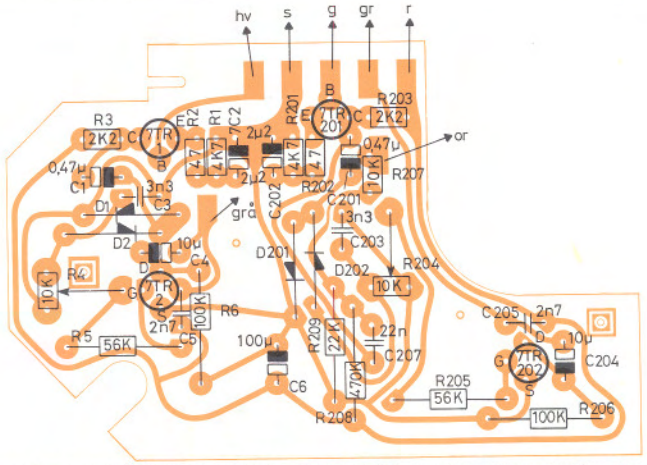
C1 (C201)	4010065	2n7F 10% 63 V
C2 (C202)	4200108	4µ7F 25 V
C3 (C203)	4200327	47 µF 6 V 3
C4 (C204)	4130088	33 nF 10% 250 V
C5 (C205)	4010027	1nF 10% 100 V
C6 (C206)	4010065	2n7 F 10% 63 V
C7 (C207)	4010031	680 pF 10% 100 V
C10 (C210)	4201057	1µF 35 V
C11 (C211)	4010041	10 nF - 20 + 100% 40 V
C12 (C212)	4010061	2n2 10% 63 V
C13 (C213)	4010027	1 nF 10% 100 V
C14 (C214)	4010064	560 pF 100% 63 V
C15 (C215)	4010063	4n7F 10% 63 V
C16 (C216)	4030089	22 nF 10% 250 V
C17 (C217)	4130100	68 nF 10% 250 V
C18 (C218)	4000023	150 pF 5% 63 V
C19 (C219)	4130088	33 nF 10% 250 V
C20 (C220)	4010063	4n7F 10% 63 V
C21 (C221)	4130097	15 nF 10% 250 V
C22 (C222)	4130111	150 nF 20% 250 V
C23 (C223)	4130100	68 nF 10% 250 V
C24 (C224)	4010063	4n7F 10% 63 V
C25 (C225)	4201072	0,22 µF 35 V
C26 (C226)	4201057	1 µF 35 V
C27 (C227)	4010060	22 nF - 20 + 100% 40 V
C28 (C228)	4201057	1 µF 35 V
C29 (C229)	4130097	15 nF 10% 250 V
C30 (C230)	4200317	47 µF 6 V 3
C31 (C231)	4200108	4 µ7F 25 V
C32 (C232)	4201057	1 µF 35 V
C33 (C233)	4010024	470 pF 10% 100 V
C34 (C234)	4200108	4 µ7F 25 V
C35 (C235)	4200108	4µ7F 25 V
C36 (C236)	4200108	4µ7F 25 V
C37 (C237)	4200108	4µ7F 25 V
C38 (C238)	4130089	22 nF 10% 250 V
C39 (C239)	4010063	4n7F 10% 63 V
C40 (C240)	4130087	47 nF 10% 270 V
C41 (C241)	4200169	0,4 µF 35 V
C42 (C242)	4010063	4n7F 10% 63 V
C43 (C243)	4200317	47 µF 6 V 3
C44 (C244)	4010024	470 pF 10% 100 V
C47	4200108	4µ7F 25 V
C48	4200108	4µ7F 25 V
C49	4200169	0,1 µF 35 V
C50	4200169	0,1 µF 35 V
C90	4010065	2n7 10% 63 V
C91	4200169	0,1 µF 35 V
C92	4201057	1 µF 35 V
C93	4200317	47 µF 6 V 3
C94	4201060	100 µF 35 V
C95	4201057	1 µF 35 V
C100	4010021	220 pF 10% 100 V

L

L1	8022054	100 mH 10%
L2	8022054	100 mH 10%
L3	8022054	100 mH 10%
L4	8022054	100 mH 10%

IL

IL1	8230044	24 V 25 mA



SET FRA PRINTSIDE / SEEN FROM CONDUCTOR SIDE / VON DER LEITERSEITE AUSGESEHEN

7 PC 8009026

R

R1 (R201)	5010613	4K7 Ohm 5% 1/8 W
R2 (R202)	5010411	47 Ohm 5% 1/8 W
R3 (R203)	5010064	2K2 Ohm 5% 1/8 W
R4 (R204)	5370074	10 KOhm 20% LIN.
R5 (R205)	5010061	56 KOhm 5% 1/8 W
R6 (R206)	5010049	100 KOhm 5% 1/8 W
(R207)	5010059	10 KOhm 5% 1/8 W
(R208)	5010077	470 KOhm 5% 1/8 W
(R209)	5010079	22 KOhm 5% 1/8 W

C

C1 (C201)	4201058	0,47 µF 35 V
C2 (C202)	4201069	2 µZF 35 V
C3 (C203)	4011025	2n3F 10% 100 V
C4 (C204)	4200101	10 µF 16 V
C5 (C205)	4010065	2n7F 10% 63 V
C6	4200099	100 µF 16 V
(C207)	4010060	22 nF - 20% + 100% 40 V